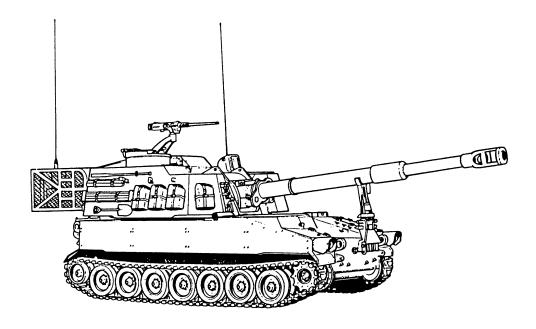
M109A6 PALADIN



SYSTEM IDENTIFIERS							
NOMENCLATURE:	Howitzer, Self- Propelled, Fully Tracked, 155mm (PALADIN)						
SSN:	G24601						
LIN:	H57642						
NSN:	2350-01-305-0028						
AMIM NO:	S615						
EIC:	3E2						
FUEL TYPE:	Diesel						

SYSTEM DESCRIPTION

The M109A6 PALADIN is a self-propelled, fully tracked field artillery system. aluminum and kevlar armored. airtransportable M109A6 has a 155mm gun with a hydraulic semi-automatic loader. It can fire up to eight rounds per minute and fires to a maximum range of 30 kilometers. It is equipped with a self location feature, remote control travel lock and digitized fire control. The M109A6's primary mission is to provide indirect support fire to armored or mechanized divisions. It is equipped with an automatic fire control system and is capable of firing nuclear artillery munitions. Secondary armament consists of an M2 .50 caliber machine gun. It has a crew of four (compared to a crew of six in older M109 models). The M109A6 is powered by a 8V-71T, 405 horsepower diesel engine. The PALADIN weighs 28 tons, and has a top speed of 35 miles per hour with a cruising range of 252 miles and a fuel capacity of 133 gallons.

The list below identifies components associated with the weapon/materiel system.

M109A6 PALADIN

LIN	NSN	NOMENCLATURE
A22496	1290-00-614-0008	AIMING CIRCLE
A46470	5820-00-892-3342	AMPLIFIER, AUDIO FREQ
A56243	4910-00-124-2554	ANALYZER SET ENGINE, PORTABLE SOLID
C89070	1080-00-108-1173	CAMOUFLAGE SCREEN SUPPORT
C89145	1080-00-103-1246	CAMOUFLAGE SCREEN SYSTEM
C89213	1080-00-623-7295	CAMOUFLAGE SCREEN SUPPORT
D81537	4230-01-133-4124	DECONTAMINATING APPARATUS PORTABLE
E54166	1240-00-066-6065	COLLIMATOR INFINITY AIMING REFERENC
K93373	5830-00-856-3273	INTERCOMMUNICATION SET
L67021	1055-01-015-0874	LAUNCHER, GRENADE, SMOKE
L91975	1005-00-322-9715	MACHINE GUN, .50 CALIBER
M10936	4240-00-987-9597	MASK, PROTECTIVE TANK
M18526	4240-01-258-0064	MASK CHEMICAL BIOLOGICAL, COMBAT
M75577	1005-00-322-9716	MOUNT, TRIPOD, MACHINE
N04456	5855-00-150-1820	NIGHT VISION GOGGLES
N05482	5855-01-228-0937	NIGHT VISION GOGGLE, AN/PVS-7B
Q03468	1290-00-891-9999	QUADRANT FIRE CONTROL
Q38299	5820-00-857-0759	RADIO SET, AN/PRC-77
R31609	5820-01-234-8093	RECEIVER-TRANSMITTER RADIO, RT-1523
R44795	5820-01-151-9918	RADIO SET AN/VRC-89
V31211	5805-00-503-2775	TELEPHONE SET, TA-43/PT

This summary provides an overview of FY 94 Total Army operating and support costs and other information for the weapon system. Average cost per system is displayed so the data can be used in performing analyses and cost studies. Average costs are calculated using the end item's density. NET REPARABLES represent the cost with the Major Subordinate Command (MSC) specific credit rates applied (detailed in Section 1 - Overview).

M109A6 PALADIN FY 94 TOTAL ARMY COST SUMMARY (FY 94 Constant Dollars)

71

DENSITY

NUMBER OF SYSTEMS

DEPOT END ITEM MAINTENANCE (5.061)

TOTAL \$0
QUANTITY COMPLETED 0
AVG COST/END ITEM \$0.00

CLASS III-POL (5.05)

NOT AVAILABLE

DEPOT SECONDARY ITEM MAINTENANCE

TOTAL \$254,529
QUANTITY COMPLETED 593
AVG COST/SECONDARY ITEM \$429.22

CLASS V-AMMUNITION (2.11)

NOT AVAILABLE

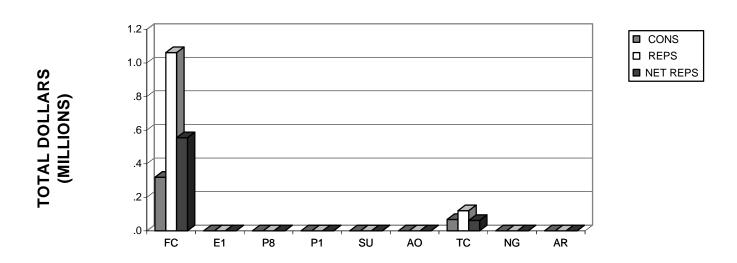
INTERMEDIATE MAINTENANCE									
	DS/GS	CIVILIAN							
MIL/CIV LABOR COST	\$4,983	\$0							
AVG COST/SYSTEM	\$70.18	\$0.00							
MAINTENANCE MANHOURS MMHs/SYSTEM	300 4.23	0 0.00							

CLASS IX MATERIEL-PARTS (5.04/5.03)

	FY 94	AVG COST
	<u>DOLLARS</u>	PER SYSTEM
CONSUMABLES	\$388,154	\$5,466.96
NET REPARABLES	\$617,285	\$8,694.15
NET TOTAL COSTS	\$1,005,439	\$14,161.11

The following graph and table display FY 94 Class IX costs for consumables (CONS), reparables, (REPS), and net reparables (NET REPS) by MACOM. CONS and REPS are the total costs of requisitions recorded in the Logistic Intelligence File (LIF). NET REPS are the cost to the customer in the field and are calculated by applying an MSC-specific credit rate at the NSN level. TOTAL ARMY (TA) costs are the summation of costs across all MACOMs in the table. NET TOTAL COSTS are the sums of the costs of CONS and NET REPS. NUMBER OF SYSTEMS is the density recorded in the Continuing Balance System - Expanded (CBS-X). AVG PER SYSTEM costs are calculated by dividing the costs in NET TOTAL COSTS by the number of systems for each MACOM.

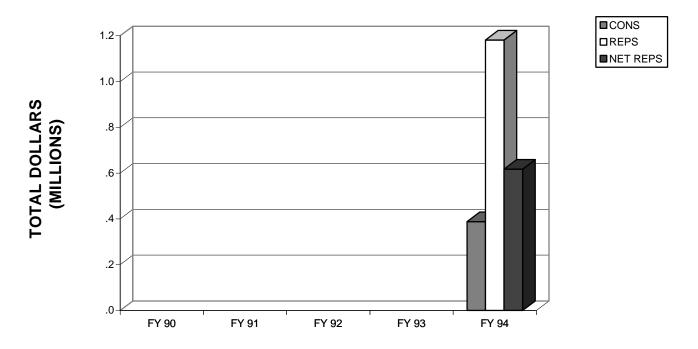
M109A6 PALADIN



	M109A6 PALADIN										
	FY 94 MACOM CLASS IX COSTS										
	MACOM			NET	NET TOTAL	NUMBER OF	AVG PER				
CODE	NAME	CONS	REPS	REPS	COSTS	SYSTEMS	SYSTEM				
FC	FORSCOM	319,791	1,061,373	554,685	874,476	51	17,147				
E1	USAREUR	0	0	0	0	0	0				
P8	EUSA	0	0	0	0	0	0				
P1	USARPAC	0	0	0	0	0	0				
SU	USARSO	0	0	0	0	0	0				
AO	USASOC	0	0	0	0	0	0				
TC	TRADOC	68,363	120,228	62,600	130,963	20	6,548				
NG	ARNG	0	0	0	0	0	0				
AR	USAR	0	0	0	0	0	0				
TA	TOTAL ARMY	388,154	1,181,601	617,285	1,005,439	71	14,161				

The following graph and table display FY 90-94 Class IX costs for consumables (CONS), reparables (REPS) and net reparables (NET REPS) by Total Army. The Total Army costs are a summation of all the MACOMs displayed on the previous page. CONS and REPS are the total cost of requisitions recorded in the Logistic Intelligence File (LIF). NET REPS are the cost to the customer in the field and are calculated by applying an MSC-specific credit rate at the NSN level. NET TOTAL COSTS are the sums of the costs of CONS and NET REPS. NUMBER OF SYSTEMS is the density recorded in the Continuing Balance System - Expanded (CBS-X). AVG PER SYSTEM costs are calculated by dividing the costs in NET TOTAL COSTS by the number of systems in the Total Army for the fiscal year. Blank rows indicate system was not tracked in the OSMIS database during that

M109A6 PALADIN



	M109A6 PALADIN FIVE YEAR TOTAL ARMY CLASS IX COSTS										
FISCAL			NET	NET	NUMBER OF	AVG PER					
YEAR	CONS	REPS	REPS	TOTAL COSTS	SYSTEMS	SYSTEM					
FY 90											
FY 91											
FY 92											
FY 93											
FY 94	388,154	1,181,601	617,285	1,005,439	71	14,161					

The Total Army Class IX costs from the previous pages are broken out by Work Breakdown Structure (WBS) in the following table. The FY 94 WBS Class IX costs for consumables (CONS) and reparables (REPS) are the total cost of requisitions recorded in the Logistic Intelligence File (LIF). The NET REPS are the cost to the customer in the field and are calculated by applying an MSC-specific credit rate at the NSN level. The TOTAL costs are a summation of all the WBS elements displayed in the table. NET TOTAL COSTS are the sum of the costs in CONS and NET REPS. NUMBER OF SYSTEMS is the density recorded in the Continuing Balance System-Expanded (CBS-X). AVG PER SYSTEM costs are calculated by dividing the costs in NET TOTAL COSTS by the total number of systems in the Army.

	M109A6 PALADIN FY 94 TOTAL ARMY WORK BREAKDOWN STRUCTURE COSTS											
	NET NET NUM OF AVG PER											
WBS	NAME	CONS	REPS	REPS	TOTAL COSTS	SYSTEMS	SYSTEM					
01	HULL/FRAME	79,172	13,824	7,179	86,351	71	1,216					
02	SUSPENSION/STEER	33,297	1,453	754	34,051	71	480					
03	POWER PACKAGE	71,327	487,274	252,894	324,221	71	4,566					
04	AUX AUTOMOTIVE	62,134	6,589	3,453	65,587	71	924					
05	TURRET ASSEMBLY	6,211	1,115	584	6,795	71	96					
06	FIRE CONTROL	41,980	208,458	109,832	151,812	71	2,138					
07	ARMAMENT	17,281	47,022	24,640	41,921	71	590					
08	BODY/CAB	0	0	0	0	0	0					
09	AUTO LOADING	0	0	0	0	0	0					
10	AUTO/REMOTE PILOT	0	0	0	0	0	0					
11	NBC EQUIPMENT	5,299	0	0	5,299	71	75					
12	SPECIAL EQUIPMENT	0	0	0	0	0	0					
13	NAVIGATION	0	210,612	110,360	110,360	71	1,554					
14	COMMUNICATIONS	42,221	66,484	34,918	77,139	71	1,086					
15	VEH APP SOFTWARE	0	0	0	0	0	0					
16	VEH SYS SOFTWARE	0	0	0	0	0	0					
17	INT, ASSY, TEST, C/O	0	0	0	0	0	0					
18	OTHER	29,232	138,770	72,671	101,903	71	1,435					
	TOTAL	388,154	1,181,601	617,285	1,005,439	71	14,161					

The following table displays FY 90-94 Class IX costs by Work Breakdown Structure (WBS) for the Total Army. NET TOTAL COSTS are summation for all the WBS elements displayed on the previous page and are a sum of the costs of CONS and NET REPS. NUMBER OF SYSTEMS is the density recorded in the Continuing Balance System-Expanded (CBS-X). AVG PER SYSTEM costs are calculated by dividing the costs in NET TOTAL COSTS by the total number of systems in the Army for the fiscal year. Blank columns indicate system was not tracked in the OSMIS database

	M109A6 PALADIN FIVE YEAR TOTAL ARMY WORK BREAKDOWN STRUCTURE COSTS										
		FY 90	FY 91	FY 92	FY 93	FY 94					
\.\/D.O		NET TOTAL									
WBS	NAME	COSTS	COSTS	COSTS	COSTS	COSTS					
01	HULL/FRAME					86,351					
02	SUSPENSION/STEER					34,051					
03	POWER PACKAGE					324,221					
04	AUX AUTOMOTIVE					65,587					
05	TURRET ASSEMBLY					6,795					
06	FIRE CONTROL					151,812					
07	ARMAMENT					41,921					
80	BODY/CAB					0					
09	AUTO LOADING					0					
10	AUTO/REMOTE PILOT					0					
11	NBC EQUIPMENT					5,299					
12	SPECIAL EQUIPMENT					0					
13	NAVIGATION					110,360					
14	COMMUNICATIONS					77,139					
15	VEH APP SOFTWARE					0					
16	VEH SYS SOFTWARE					0					
17	INT, ASSY, TEST, C/O					0					
18	OTHER					101,903					
	TOTAL			-		1,005,439					
	NUM OF SYSTEMS					71					
	AVG PER SYSTEM					14,161					

M109A6 PALADIN TOP 40 COST DRIVERS CLASS IX CONSUMABLES (NON-DLRs)

	NSN	NOMENCLATURE	WBS	MRC	ARI	MATCAT	FY 94 AMDF UNIT PRICE	FY 94 QTY
								_
	6110013279389	REGULATOR, VOLTAGE	04A	Z		J2200	1,851.99	14.00
	5855012466814	WIRE BODY ASSEMBLY	06E	Z		G22SZ	247.00	74.00
	2530003973302	PAD ASSEMBLY,TRACK	02B	Z		K22KF	4.79	3,794.37
4.	5855010343845	IMAGE INTENSIFIER,N	06E	Z		G22SZ	1,274.00	11.89
	5985012972971	ANTENNA	14	F		G24RU	255.00	57.00
	2540013677587	MOTOR,HYDRAULIC	01H	Z		J2200	3,694.95	3.00
	5995013034951	CABLE ASSEMBLY,SPEC	14	Z		G22R2	512.00	18.00
8.	2530008016702	WHEEL SOLID RUBBER T	02A	F		K21MM	289.00	31.41
9.	4330013556038	FILTER ELEMENT,FLUI	18	Z		J2200	195.74	46.00
10.	2910013021348	TANK,FUEL,ENGINE	03A	Z		K24KF	7,101.00	1.24
	2920013504237	CONTROLLER,GLOE PLU	03A	Z		J2200	4,399.35	1.60
	2540013557750	BOX,ACCESSORIES STO	01H	F		J2100	2,209.96	3.00
13.	2530013213324	ARM ASSEMBLY,PIVOT,	03Q	F		K24KF	4,679.00	1.40
14.	2530013154978	SPINDLE,WHEEL,DRIVI	03Q	F		K24KF	4,571.00	1.40
15.	4140007563612	FAN,VANEAXIAL	18	F		K21KF	1,103.00	4.85
16.	4810013237141	VALVE,SOLENOID	01A	F		J2200	4,294.04	1.00
17.	5945013504104	RELAY,ELECTROMAGNET	04A	Z		Q2200	1,172.56	3.00
18.	5977013235398	SEGMENT,RING,ELECTR	04A	Z		M24KF	1,644.00	2.11
19.	2530007990021	PAD ASSEMBLY TRACK S	02B	Z		K22KF	4.79	711.35
20.	5365008611468	RING,RETAINING	01A	Z		M22KF	823.00	3.95
21.	5365008611467	RING,RETAINING	01A	Z		M22KF	746.00	4.18
22.	2590009336260	ANCHOR SPADE, VEHICU	01H	Z		J2200	985.57	3.05
23.	5895013560205	MODEM, COMMUNICATION	14	Н		M24KF	694.00	4.29
24.	3040013509086	HUB,RANGE CLUTCH,TR	03K	Z		J2200	1,424.76	2.00
25.	1240001570762	TELESCOPE ELBOW,CONS	06E	Н		M21LD	854.00	3.30
26.	6150013675405	CABLE ASSEMBLY,SPEC	04A	Z		J2200	1,401.50	2.00
27.	2540013557676	BASKET,ACCESSORIES	01H	F		J2100	2,756.55	1.00
28.	6150013202705	CABLE ASSEMBLY,SPEC	05E	Z		M24KF	1,314.00	2.07
29.	5945013553743	SOLENOID, ELECTRICAL	04A	Z		Q2200	893.64	3.00
30.	2520004751290	PROPELLER SHAFT WIT	03K	Z		J2200	504.56	4.98
31.	1025012960007	BLOCK,FIRING GROUP	07A	Z		M22KF	1,113.00	2.24
32.	4810013564540	VALVE,SOLENOID	01A	Z		J2200	1,221.93	2.00
33.	5935013602630	CONNECTOR ASSEMBLY,	14	F		G21RU	353.00	6.61
34.	3040013509162	BRACKET,EYE,NONROTA	03K	Z		J2200	776.76	3.00
35.	1090008409552	GRIP ASSEMBLY,CONTR	07D	F		M21KF	2,536.00	0.91
36.	6680013595376	TACHOMETER, ELECTRIC	01A	Z		J2200	2,222.24	1.00
37.	6150013168833	WIRING HARNESS,BRAN	04A	0		K24KF	2,171.00	0.97
38.	6150013169255	WIRING HARNESS, BRAN	05E	0		M24KF	1,818.00	1.10
39.	6150013153989	WIRING HARNESS, BRAN	04A	F		K24KF	1,244.00	1.58
40.	2930013089191	RADIATOR, ENGINE COO	03G	F		K24KF	1,795.00	1.08

NUMBER OF SYSTEMS 71

NOTE: ROWS MAY NOT CALCULATE DUE TO ROUNDING

M109A6 PALADIN CONSUMABLES (NON-DLRs)

					FY 90-94
_	AVERAGE COS	ST	AVERAGE QUANTITY	FIVE	YEAR AVERAGE
EXTENDED COST	PER		PER		
(QTY * UNIT PRICE)	SYSTEM		100 SYSTEMS	QTY	EXTENDED COST
25.225	005.47		40.7400		
25,927	365.17		19.7183		
18,278	257.44		104.2254		
18,175	255.99		5,344.1831		
15,148	213.35		16.7465		
14,535	204.72		80.2817		
11,085	156.13		4.2254		
9,216	129.80		25.3521		
9,077	127.85		44.2394		
9,004	126.82		64.7887		
8,805	124.01		1.7465		
7,039	99.14		2.2535		
6,630	93.38		4.2254		
6,551	92.27		1.9718		
6,399	90.13		1.9718		
5,350	75.35		6.8310		
4,294	60.48		1.4085		
3,517	49.54		4.2254		
3,469	48.86		2.9718		
3,408	48.00		1,001.9014		
3,251	45.79		5.5634		
3,118	43.92		5.8873		
3,006	42.34		4.2958		
2,977	41.93		6.0423		
2,849	40.13		2.8169		
2,818	39.69		4.6479		
2,803	39.48		2.8169		
2,757	38.83		1.4085		
2,720	38.31		2.9155		
2,681	37.76		4.2254		
2,513	35.39		7.0141		
2,493	35.11		3.1549		
2,444	34.42		2.8169		
2,333	32.86		9.3099		
2,330	32.82		4.2254		
2,308	32.51		1.2817		
2,222	31.30		1.4085		
2,106	29.66		1.3662		
2,000	28.17		1.5493		
1,966	27.69		2.2254		
1,938	27.30		1.5211		
239,540	61.7%	TOP 40			
148,614	38.3%	OTHERS			
388,154		TOTAL			

M109A6 PALADIN TOP 40 COST DRIVERS CLASS IX REPARABLES (DLRs)

							FY 94 AMDF	UNIT PRICE	FY 94
	NSN	NOMENCLATURE	WBS	MRC	ARI	MATCAT	W/O CREDIT	W/CREDIT	QTY
	2520012821224	TRANSMISSION ASSEI	03H	Н	R	K21KF	74,217.00	38,518.62	3.42
2.	1220013075524	COMPUTER,BALLISTIC	06F	D		M24KF	104,751.00	54,889.52	1.10
3.	6605012298504	DYNAMIC REFERENCE	13	D		M24T3	105,306.00	55,180.34	1.00
4.	6605013349447	DYNAMIC REFERENCE	13	D		M24T3	105,306.00	55,180.34	1.00
5.	2520012821228	TRANSFER TRANSMIS	03H	Н	R	K21KF	21,948.00	11,391.01	3.84
6.	2520008949533	XMSN MDL XTG 411-2/	03H	Н	R	K21KF	61,118.00	31,720.24	1.00
7.	5895013073943	CONTROL, COMMUNIC	14	D		M24KF	53,872.00	28,228.93	1.10
8.	7025013075519	DISPLAY UNIT	18	D		M24KF	23,611.00	12,372.16	2.13
9.	1025012943341	PDIU ASSEMBLY	07A	D		M24KF	20,143.00	10,554.93	2.13
10.	1240001067754	TELESCOPE,PANORAI	06E	D	Е	M21KF	8,119.00	4,254.36	4.97
11.	6130013075527	CONTROL, POWER SUI	18	D		M24KF	55,374.00	29,015.98	0.71
12.	7021013075525	COMPUTER, DIGITAL	18	D		M24KF	24,128.00	12,643.07	1.42
13.	2920013069406	GENERATOR, ENGINE	03A	D		K24KF	21,937.00	11,385.30	1.51
14.	1240008712969	MOUNT TELESCOPE T	06E	D	С	M21KF	17,396.00	9,115.50	1.55
15.	5855012280942	IMAGE INTENSIFIER,N	06E	D		G21SZ	2,776.00	1,521.25	9.00
16.	2815013354579	ENGINE, DIESEL	03A	Н	R	K21KV	31,132.00	16,157.51	0.64
17.	2520008949535	TRF XMSN F/M109 W/C	03H	Н	R	K21KF	16,617.00	8,624.22	1.16
18.	2540011695159	HEATER, VEHICULAR, C	01H	F	С	K21MC	1,474.00	765.01	8.46
19.	4140012845722	FAN,VANEAXIAL	18	F	R	K21KF	1,103.00	572.46	6.77
20.	3010013303261	ACTUATOR, ELECTRO-	03L	D		K24KF	3,415.00	1,772.39	2.03
21.	6105012973818	MOTOR, DIRECT CURR	04A	D		M24KF	4,673.00	2,448.65	1.41
22.	4320013558489	PUMP, AXIAL PISTONS	18	D		M24KF	6,650.00	3,484.60	0.97
23.	5985011006403	ANTENNA, RADAR CHF	14	D	С	M21LJ	9,608.00	5,034.59	0.40
24.	2520009649203	FINAL DRIVE WITH CO	03N	Н	R	K21KF	4,029.00	2,091.05	0.90
25.	1025009677538	BREECHBLOCK ASSE	07A	D	С	M21KF	8,276.00	4,336.62	0.36
26.	2930009216475	DRIVE ASSEMBLY FAN	03G	F	R	K21KF	837.00	434.40	3.52
27.	2920004751446	GENERATOR ENGINE	03A	F	R	K21KF	1,327.00	688.71	1.31
28.	2530013102237	WHEEL, SOLID RUBBEI	02A	D	R	K21MM	138.00	71.62	9.89
29.	2540011623834	HEATER, VEHICULAR, C	01H	F	С	K21MC	1,424.00	739.06	0.86
30.	1025009197277	CYLINDER, RECUPERA	07A	D	С	M21KF	4,949.00	2,593.28	0.23
31.	5999011073862	CIRCUIT CARD ASSEN	05E	D	С	M21LJ	2,788.00	1,460.91	0.40
32.	1290010982232	PANEL ASSEMBLY, DIG	06H	D	С	M21LJ	6,020.00	3,154.48	0.14
	5895013602623	AMPLIFIER SUBASSEN	14	Н	Е	G24R9	540.00	295.92	1.11
	5895012822851	RECEIVER SUBASSEN	14	Н	С	G21R9	1,571.00	860.91	0.38
	5820011888818	EXCITER, RADIO FREQ	14	D		G21R9	1,029.00	563.89	0.52
	3940012800872	SLING,BEAM TYPE	18	D		K21PQ	361.00	187.36	1.45
	4320008712834	PUMP UNIT, CENTRIFU	18	F	С	K21JT	694.00	360.19	0.66
	5820012822846	CONTROL, COUNTER	14	D.		G21R9	2,008.00	1,100.38	0.15
	5998013501709	CIRCUIT CARD ASSEN	14	D	Е	G24R9	413.00	226.32	0.64
	2990011512684	TURBOSUPERCHARGI	03A	Н	R	K21KF	765.00	397.04	0.36
₹0.	2000011012004	TOTADOGGI ETTOTIATOR	00/1		-1	I Z II XI	7 00.00	007.0 T	0.50

NUMBER OF SYSTEMS 71

NOTE: ROWS MAY NOT CALCULATE DUE TO ROUNDING

M109A6 PALADIN REPARABLES (DLRs)

	AVERAGE COS	ST		FY 90-94		
EXTENDED COST	(W/CREDIT)	AVERAGE QUANTITY	Y FIVE	YEAR AVERAGE		
(W/CREDIT)	PER	PER		EXTENDED COST		
(QTY * UNIT PRICE)	SYSTEM	100 SYSTEMS	QTY	(W/CREDIT)		
_						
131,733	1,855.39	4.8169				
60,378	850.39	1.5493				
55,180	777.18	1.4085				
55,180	777.18	1.4085				
43,742	616.08	5.4085				
31,720	446.76	1.4085				
31,052	437.35	1.5493				
26,353	371.17	3.0000				
22,482	316.65	3.0000				
21,144	297.80	7.0000				
20,601	290.15	1.0000				
17,953	252.86	2.0000				
17,192	242.14	2.1268				
14,129	199.00	2.1831				
13,691	192.83	12.6761				
10,341	145.65	0.9014				
10,004	140.90	1.6338				
6,472	91.15	11.9155				
3,876	54.59	9.5352				
3,598	50.68	2.8592				
3,453	48.63	1.9859				
3,380	47.61	1.3662				
2,014	28.37	0.5634				
1,882	26.51	1.2676				
1,562	22.00	0.5070				
1,529	21.54	4.9577				
902	12.70	1.8451				
709	9.99	13.9296				
636 596	8.96 8.39	1.2113 0.3239				
584	8.23	0.5634				
442	6.23	0.3634				
329	4.63	1.5634				
328	4.62	0.5352				
293	4.13	0.7324				
271	3.82	2.0423				
237	3.34	0.9296				
165	2.32	0.2113				
144	2.03	0.9014				
143	2.01	0.5070				
143	2.01	0.3070				
	20.004	TOP 40				
616,420	99.9%	TOP 40				
865	0.1%	OTHERS				
617,285						
- ,						

The following table summarizes FY 94 Depot Maintenance Costs from the Master File Maintenance (MFM). Depot maintenance costs are displayed by cost elements for end item maintenance and secondary item maintenance. The OTHER cost columns represent work categories such as progressive maintenance, renovation, and fabrication/manufacture. For reporting purposes, TRANSPORTATION costs recorded in the World Aircraft Logistics Conference (WALC)/Special Aircraft Assignment Mission (SAAM) records are shown in the OTHER maintenance category.

M109A6 PALADIN FY 94 DEPOT MAINTENANCE COSTS									
COST		END I	ГЕМ			SECONDARY	TITEM		
ELEMENTS		MAINTEN	NANCE			MAINTENAI	NCE		
	REPAIR	OVERHAUL	OTHER	MODIFICATION	REPAIR	OVERHAUL	OTHER		
CIVILIAN LABOR	0	0	0	0	12,336	11,922	44,771		
MILITARY LABOR	0	0	0	0	0	0	0		
MATERIEL	0	0	0	0	27,183	8,548	61,428		
TRANSPORTATION	0	0	0	0					
OVERHEAD	0	0	0	0	19,977	20,036	47,562		
CONTRACT	0	0	0	0	0	0	0		
OTHER	0	0	0	0	129	140	497		
TOTAL	0	0	0	0	59,625	40,646	154,258		
QTY COMPLETED	0	0	0	0	32	28	533		
AVG COST	0	0	0	0	1,863	1,452	289		

The table below summarizes FY 94 Intermediate Maintenance Costs from the Work Order Logistics File (WOLF) data. The labor hours and labor costs for Direct Support/General Support Intermediate Maintenance (DS/GS) and Civilian Maintenance are displayed by MACOM and Total Army. MACOM DS/GS LABOR COSTS are calculated by multiplying MACOM labor hours by the Army Manpower Cost System (AMCOS) E-5 composite standard rate (\$16.61). CIVILIAN LABOR COSTS are a summation from the source data.

M109A6 PALADIN FY 94 INTERMEDIATE MAINTENANCE COSTS							
	DS/GS LABOR	DS/GS	CIVILIAN	CIVILIAN	CIVILIAN LABOR		
MACOM	HOURS	LABOR COSTS	LABOR HOURS*	LABOR COSTS [*]	COST/HOUR		
FORSCOM	296	4,917	0	0	0.00		
USAREUR	0	0					
EUSA	0	0					
USARPAC	0	0					
USARSO	0	0					
USASOC	0	0					
TRADOC	4	66	0	0	0.00		
ARNG	0	0					
USAR	0	0					
TOTAL ARMY	300	4,983	0	0	0.00		

^{*}TRADOC LABOR HOURS and LABOR COSTS include contractor hours and costs.

The following table summarizes FY 90-94 Depot Maintenance Costs. The depot maintenance data are recorded in MFM. FY 94 costs are a summation of the cost elements displayed on the previous page. END ITEM OVERHEAD costs were not separately identified prior to FY 92. TRANSPORTATION costs are recorded in the WALC/SAAM records. Blank columns indicate system was not tracked in the OSMIS database during that fiscal year.

M109A6 PALADIN FIVE YEAR DEPOT MAINTENANCE COSTS										
COST ELEMENTS							ONDARY I AINTENAN			
	FY 90	FY 91	FY 92	FY 93	FY 94	FY 90	FY 91	FY 92	FY 93	FY 94
CIVILIAN LABOR					0					69,029
MILITARY LABOR					0					0
MATERIEL					0					97,159
TRANSPORTATION					0					
OVERHEAD					0					87,575
CONTRACT					0					0
OTHER					0					766
TOTAL	·				0					254,529
QTY COMPLETED					0					593
AVG COST					0					429

The table below sumarizes FY 90-94 Intermediate Maintenance Costs from WOLF. The fiscal year total costs for Direct/General Support Intermediate Maintenance (DS/GS) and Civilian Maintenance are displayed by MACOM and Total Army. MACOM DS/GS labor costs are calculated by multiplying MACOM labor hours by the Army Manpower Cost System (AMCOS) E-5 composite standard rate. DS/GS COST PER HR is the E-5 composite standard rate in FY 94 constant dollars. CIVILIAN LABOR COSTS are a summation from the source data. Blank columns indicate system was not tracked in the OSMIS database during that fiscal year.

M109A6 PALADIN FIVE YEAR INTERMEDIATE MAINTENANCE COSTS										
	DIRECT/GENERAL SUPPORT						CIVILIAN			
	INT	ERMEDIAT	E MAINTEN	IANCE (DS	/GS)		MAIN	NTENANCE	(CIV)	
MACOM	FY 90	FY 91	FY 92	FY 93	FY 94	FY 90	FY 91	FY 92	FY 93	FY 94
FORSCOM					4,917					0
USAREUR					0					
EUSA					0					
USARPAC					0					
USARSO					0					
USASOC					0					
TRADOC					66					0
ARNG					0					
USAR					0					
TOTAL ARMY					4,983					0
LABOR HRS					300					0
COST PER HR					16.61					0.00

The following list shows the FY 94 Secondary Item - Rebuilds/Overhauls Cost Drivers recorded in the MFM. AVG COST TO REBUILD/OVERHAUL is calculated by dividing the costs in FY 94 TOTAL COST TO REBUILD/OVERHAUL by FY 94 QTY COMPLETED.

M109A6 PALADIN FY 94 DEPOT SECONDARY ITEM MAINTENANCE - REBUILDS/OVERHAULS COST DRIVERS								
		FY 94						
	FY 94	TOTAL COST	FY 94	AVG COST				
	AMDF	TO REBUILD/	QTY	TO REBUILD/				
NOMENCLATURE	PRICE	OVERHAUL	COMPLETED	OVERHAUL				
TELESCOPE,PANORA	8,119	31,094	11	2,827				
ALIGNMENT DEVICE	737	6,226	12	519				
GRIP ASSEMBLY,CO	2,536	3,255	4	814				
BOLT ASSEMBLY(A	412	71	1	71				
	NOMENCLATURE TELESCOPE,PANORA ALIGNMENT DEVICE GRIP ASSEMBLY,CO	COST DRIV FY 94 AMDF AMDF PRICE TELESCOPE,PANORA ALIGNMENT DEVICE GRIP ASSEMBLY,CO 2,536	COST DRIVERS FY 94 TOTAL COST FY 94 TOTAL COST TO REBUILD/ NOMENCLATURE PRICE OVERHAUL TELESCOPE,PANORA 8,119 31,094 ALIGNMENT DEVICE 737 6,226 GRIP ASSEMBLY,CO 2,536 3,255	COST DRIVERS FY 94 FY 94 TOTAL COST TO REBUILD/ TO REBUILD/ OTY QTY NOMENCLATURE PRICE OVERHAUL COMPLETED COMPLETED TELESCOPE,PANORA 8,119 31,094 11 ALIGNMENT DEVICE 737 6,226 12 GRIP ASSEMBLY,CO 2,536 3,255 4				

The following list shows the FY 94 Secondary Item Maintenance - Repairs Cost Drivers recorded in MFM. AVG COST TO REPAIR is calculated by dividing the costs in FY 94 TOTAL COST TO REPAIR by FY 94 QTY COMPLETED.

M109A6 PALADIN FY 94 DEPOT SECONDARY ITEM MAINTENANCE - REPAIRS COST DRIVERS								
		FY 94	FY 94	FY 94				
		AMDF	TOTAL COST	QTY	AVG COST			
NSN	NOMENCLATURE	PRICE	TO REPAIR	COMPLETED	TO REPAIR			
1240-00-106-7754	TELESCOPE,PANORA	8,119	41,817	7	5,974			
2920-00-475-1446	GENERATOR ENGINE	1,327	10,285	12	857			
4931-01-187-9713	ALIGNMENT DEVICE	737	5,698	11	518			
2540-01-169-5159	HEATER, VEHICULAR	1,474	1,825	2	913			

The following list shows the FY 90-94 Secondary Item - Rebuild/Overhauls Cost Drivers recorded in MFM. These five year Cost Drivers were revised from previous years' reports, see Appendix A, Section 15 for further explanation. AVG COST TO REBUILD/OVERHAUL is calculated by dividing the costs in FY 90-94 TOTAL COST TO REBUILD/OVERHAUL by FY 90-94 QTY COMPLETED.

M109A6 PALADIN FIVE YEAR DEPOT SECONDARY ITEM MAINTENANCE - REBUILDS/OVERHAULS COST DRIVERS								
FY 90-94								
		FY 94	TOTAL COST	FY 90-94	AVG COST			
		AMDF	TO REBUILD/	QTY	TO REBUILD/			
NSN	NOMENCLATURE	PRICE	OVERHAUL	COMPLETED	OVERHAUL			
1240-00-106-7754	TELESCOPE,PANORA	8,119	31,094	11	2,827			
4931-01-187-9713	ALIGNMENT DEVICE	737	6,226	12	519			
1090-00-840-9552	GRIP ASSEMBLY,CO	2,536	3,255	4	814			
1005-00-614-7463	BOLT ASSEMBLY(A	412	71	1	71			

The following list shows the FY 90-94 Secondary Item - Repairs Cost Drivers recorded in MFM. These five year Cost Drivers were revised from previous years' reports, see Appendix A, Section 15 for further explanation. AVG COST TO REPAIR is calculated by dividing the costs in FY 90-94 TOTAL COST TO REPAIR by FY 90-94 QTY COMPLETED.

M109A6 PALADIN FIVE YEAR DEPOT SECONDARY ITEM MAINTENANCE - REPAIRS COST DRIVERS								
		FY 94	FY 90-94	FY 90-94				
		AMDF	TOTAL COST	QTY	AVG COST			
NSN	NOMENCLATURE	PRICE	TO REPAIR	COMPLETED	TO REPAIR			
1240-00-106-7754	TELESCOPE,PANORA	8,119	41,817	7	5,974			
2920-00-475-1446	GENERATOR ENGINE	1,327	10,285	12	857			
4931-01-187-9713	ALIGNMENT DEVICE	737	5,698	11	518			
2540-01-169-5159	HEATER, VEHICULAR	1,474	1,825	2	913			

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